FORM-PTO-1390 U.S DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER (Rev. 9-2001) TRANSMITTAL LETTER TO THE UNITED STATES 033434-003 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) CONCERNING A FILING UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/NO00/00260 / 9 August 2000 / 10 August 1999 TITLE OF INVENTION METHOD FOR STRENGTHENING A GEAR WHEEL, AND A GEAR WHEEL  $\,$ APPLICANT(S) FOR DO/EQ/US Bjørn EILERTSEN Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau).  $\boxtimes$ has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) ď. is attached hereto. ħ has been previously submitted under 35 U.S.C. 154(d)(4). 7.  $\bowtie$ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))  $\boxtimes$ are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. L have not been made; however, the time limit for making such amendments has NOT expired. .... have not been made and will not be made.  $\boxtimes$ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  $\boxtimes$ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).  $\boxtimes$ 10 An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included:

#### 18. A second copy of the published international application under 35 U.S.C. 154(d)(4). 19 A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

An Information Disclosure Statement under 37 CFR 1.97 and 1.98.

A SECOND or SUBSEQUENT preliminary amendment.

A change of power of attorney and/or address letter.

 $\boxtimes$ 20. Other items or information:

A FIRST preliminary amendment.

A substitute specification.

 $\boxtimes$ 

 $\boxtimes$ 12.

 $\boxtimes$ 13.

16

14

International Search Report, International Preliminary Examination Report, Written Opinion, Reply to Written Opinion, Form PCT/IB/304, Form PCT/IPEA/402, Change of Address of Applicant

An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.

A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.



U.S. APPLICATION NO (If kn	own, see 37 C F.R 1 5)	INTERNATIONAL APPLICA PCT/NO00/0026			AT 03	ORNEY'S DOCKET NUMBER 3434-003
21. A The following	g fees are submitted:			CA	LCULATIONS	PTO USE ONLY
Basic National Fee (37	CFR 1.492(a)(1)-(5)):					
Neither internation nor international s and International S	al preliminary examination fe earch fee (37 CFR 1.445(a)(2 Search Report not prepared by	e (37 CFR 1.482) )) paid to USPTO <sup>,</sup> the EPO or JPO	\$1,040.00 (960)			
	ninary examination fee (37 CF ational Search Report prepared					
	ninary examination fee (37 CF earch fee (37 CFR 1.445(a)(2					
International prelim but all claims did r	ninary examination fee (37 CF not satisfy provisions of PCT /	R 1.482) paid to USPTO	\$710.00 (956)			
International prelim and all claims satis	ninary examination fee (37 CF ofied provisions of PCT Article	R 1.482) paid to USPTO	\$100.00 (962)			
		APPROPRIATE BASIC		\$	1,040.00	
Surcharge of \$130.00 ( months from the earlies	154) for furnishing the oath of t claimed priority date (37 CF		20 🗆 30 🗆	\$		
Claims	Number Filed	Number Extra	Rate			
Total Claims	5 -20 =	0	X\$18.00 (966)	\$	0.00	
Independent Claims	1 -3 =	0	X\$84.00 (964)	\$	0.00	
Multiple dependent clair	n(s) (if applicable)		+ \$280.00 (968)	\$		
		TOTAL OF ABOVE C	ALCULATIONS =	\$	1,040.00	
The re-	ng by small entity, if applicab	ile (see below).	+	\$		-
			SUBTOTAL =	\$	1,040.00	
Processing fee of \$130.	00 (156) for furnishing the Ert claimed priority date (37 CF	nglish translation later than R 1.492(f)).	20 🗆 30 🗆	\$	**	
Section 1		TOTAL	IATIONAL FEE =	\$	1,040.00	
Fee for recording the en- an appropriate cover she	closed assignment (37 CFR 1 set (37 CFR 3.28, 3.31). \$40	.21(h)). The assignment mu 0.00 (581) per property	st be accompanied by	\$	40.00	
and a		TOTAL FE	ES ENCLOSED =	\$	1,080.00	
COLUMN TO THE PARTY OF THE PART					Amount to be refunded:	
					charged:	\$
a. Small entity	status is hereby claimed.					
	ne amount of \$1,080,00					
io diiologea.	e my Deposit Account No. <u>02</u>					
d. 🖾 The Commiss Account No.	sioner is hereby authorized to <u>02-4800</u> . A duplicate copy o	charge any additional fees w of this sheet is enclosed.	hich may be required,	or cred	dit any overpa	syment to Deposit
NOTE: Where an a must be filed and g	appropriate time limit under 3' granted to restore the applicat	7 CFR 1.494 or 1.495 has notion to pending status.	ot been met, a petition	to rev	ive (37 CFR	1.137(a) or (b))
SEND ALL CORRESPON	DENCE TO:	1	11/1	/	7	•
Ronald L. ( Burns, Do	ANE. SWECKER & MATHIS	L.L.P. SIGN	AGU W ,	(1	1	
P.O. Box 1 Alexandria (703) 836-	, Virginia 22313-1404		tt W. Cummings			_//
		41,			February	21, 2002

JC13 Rec'd FCT/FTC 1 1 FEB 2002

Patent Attorney's Docket No. 033434-003

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	) BOX PCT/US	
Bjørn EILERTSEN	) Group Art Unit: Unassigne	d
Application No.: (Unassigned International Application PCT/NO00/00260	) Examiner: Unassigned )	
I.A. Filing Date: August 9, 2000	)	
For: METHOD FOR STRENGTHENING A GEAR WHEEL, AND A GEAR WHEEL	) ) )	
	,	

### PRELIMINARY AMENDMENT

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Prior to examination of the above-identified application on the merits, please amend the application as follows.

### **IN THE ABSTRACT:**

Please delete the existing Abstract and substitute the Abstract attached hereto as a separate sheet.

### IN THE CLAIMS:

Please cancel claim 1 without prejudice or disclaimer.

Please replace claims 2-5 with the corresponding amended claims.

- 2. (Amended) A method according to claim 1, wherein the strengthening rings are shrink-fitted around the gear wheel in such manner that the strengthening rings will be firmly shrunk onto the gear wheel with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material.
- 3. (Amended) A method according to claim 2, wherein during the sizing process the toothed rim of the driving gear is envisaged stretched out to a correspondingly larger circle, shrink fits being selected for this circle in accordance with the ISO tables of limits and fits, and that similar considerations are made for each strengthening ring.
- 4. (Amended) A gear wheel having surrounding strengthening rings connected to the gear wheel teeth, wherein each tooth is fixed like a theoretical beam between two extreme points in that two strengthening rings, shaped on their insides in conformity with the gear wheel teeth, are fitted around the gear wheel.
- 5. (Amended) A gear wheel according to claim 4, wherein the strengthening rings are shrink-fitted in such manner that the strengthening rings will be firmly shrunk onto the gear wheel with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material.

Please add new claim 6 as follows:

6. (New) A method for strengthening a gear wheel, wherein strengthening rings are placed around the gear wheel and connected to the gear wheel teeth, and wherein each tooth is fixed like a theoretical beam between two extreme points and two strengthening wheels each shaped on its inside in conformity with the gear wheel teeth, are shrink-fitted around the gear wheel.

### **REMARKS**

Entry of the foregoing prior to an examination on the merits is respectfully requested.

The above amendments have been made to place the application in better form for examination.

An early and favorable action on the merits is earnestly solicited.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

 $\mathbf{R}_{\mathbf{W}}$ 

Scott W. Cummings Registration No. 41,567

P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620

Date: February 11, 2002

Application No. <u>PCT/NO00/00260</u> Attorney's Docket No. <u>033434-003</u> Page 1

# Attachment to Preliminary Amendment dated February 11, 2002 Marked-up Claims 2-5

- 2. (Amended) A method according to claim 1, [characterised in that] wherein the strengthening rings [(3, 4)] are [secured] shrink-fitted around the gear wheel [(1)] in such manner that the strengthening rings [(3, 4)] will be firmly shrunk onto the gear wheel [(1)] with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material [(steel)].
- 3. (Amended) A method according to claim 2, [characterized in that] wherein during the sizing process the toothed rim of the driving gear [(1)] is envisaged stretched out to a correspondingly larger circle, shrink fits being selected for this circle in accordance with the ISO tables of limits and fits, and that similar considerations are made for each strengthening ring [(3, 4)].
- 4. (Amended) A gear wheel having surrounding strengthening rings connected to the gear wheel teeth, wherein [(1), characterised in that] each tooth [(2)] is fixed like a theoretical beam between two extreme points in that two strengthening rings [(3, 4)], shaped on their insides in conformity with the gear wheel teeth [(2)], are fitted around the gear wheel.
- 5. (Amended) A gear wheel according to claim 4, [characterised in that] wherein the strengthening rings [(3, 4)] are shrink-fitted in such manner that the

# Attachment to Preliminary Amendment dated February 11, 2002

### Marked-up Claims 2-5

strengthening rings [(3, 4)] will be firmly shrunk onto the gear wheel [(1)] with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material [(steel)].

20

13 Rec'd PCT/PTO 1,1 FEB 2002

1

# METHOD FOR STRENGTHENING A GEAR WHEEL, AND A GEAR WHEEL

The invention relates to a method for strengthening a gear wheel.

The invention also relates to a gear wheel thus strengthened.

Gear wheels in cranes and lifting devices are highly stressed components. Experience has shown that, for example, driving gear wheels in jack-up systems for jack-up offshore platforms, driving gear wheels interacting with vertical toothed racks, have a surprisingly short useful life. Their useful life is notably shorter than that of the interacting toothed racks, which is due to the fact that the gear wheel teeth are quite naturally exposed to a greater number of alternating loads than the teeth of the rack.

Studies have shown that the teeth of driving gear wheels in large structures are exposed to motions that ultimately cause fracture in the root of the tooth.

It is an object of the invention to provide a method and an apparatus for strengthening gear wheels, particularly, but not exclusively, large driving gear wheels that are used in cranes and lifting devices.

Based on the acknowledgement of the fact that the teeth are subject to breakage as a consequence of the alternating motions in the tooth itself, most notably in the roots of the teeth, it is proposed according to the invention to fix each individual tooth in the gear wheel in the direction of circumference in order thereby to counteract the said tooth motions during operations, i.e., that each individual tooth will be like a theoretical beam fixed at both ends.

According to the invention, a method is therefore proposed for strengthening a gear wheel, characterised in that each tooth is fixed like a theoretical beam between two extreme points, in that two strengthening rings, each shaped on its inside in conformity with the gear wheel teeth, are placed around the gear wheel.

It is especially advantageous if the rings are secured around the gear wheel in such manner that the rings will be firmly shrunk onto the gear wheel with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material (steel).

5

10

15

20

25

According to the invention, a gear wheel is also proposed that is characterised in that each tooth is fixed like a theoretical beam between two extreme points, in that around each gear wheel there are fixed two strengthening rings, each shaped on its inside in conformity with the gear wheel teeth.

It is especially advantageous if the strengthening rings are shrunk on in such manner that the rings will remain firmly shrunk onto the gear wheel with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material (steel).

Each individual strengthening ring is designed in principle like an internal ring gear having teeth intended for engagement in the tooth pockets of the gear wheel, with clearance towards the base of the teeth of the gear wheel or clearance towards the base of the teeth of both gear wheel and ring.

The invention can be carried out in a particularly advantageous way by envisaging the toothed rim of the driving gear stretched out to a correspondingly larger circle, shrink fits being chosen for this circle in accordance with the ISO tables of limits and fits, and by making similar considerations for the ring.

The invention will now be described in more detail with reference to the drawing, wherein:

Fig. 1 shows a gear wheel viewed looking towards the teeth;

Fig. 2 is a side view of a gear wheel;

Fig. 3 is a section taken from Fig. 1;

30 Fig. 4 is a section taken from Fig. 2;

Fig. 5 is a section of a gear wheel and ring in the area where they are secured together; and

Fig. 6 is another section of a gear wheel and ring in an area where they are secured together.

 The gear wheel 1 shown in Figs. 1 and 2 has a plurality of teeth 2 around its circumference. At each end side of the gear wheel 1 there is shrink-fitted a strengthening ring 3 and 4 respectively. Each ring 3, 4 is made in the form of an internal gear wheel with teeth 5. The teeth are shaped to fit with the teeth 2 on the gear wheel 1, see in particular Fig. 4.

As can be seen from Fig. 1 and from the section in Fig. 3, each tooth 2 on the gear wheel 1 will be fixed like a beam between the two strengthening rings 3 and 4, and the rings 3, 4 will counteract motions of each individual tooth 2 in the direction of circumference when the teeth are subjected to forces in interaction with another set of teeth on a gear wheel or a toothed rack (not shown).

As shown in Fig. 4, a clearance 6, 7 is provided between the tooth crest and the tooth base on/in the gear wheel and ring. This ensures a best possible flank contact between the teeth 2 and 5 as well as a reduction in the stress of radial forces, see also Figs. 5 and 6. In Fig. 6 there is a clearance 8 only between ring-tooth crest and ring-tooth base.

In order to achieve the best possible effect, each individual strengthening ring 3, 4 is fitted on/around the gear wheel 1 by producing/utilising a tensile force within 80% of the permanent elongation limit of the material (steel). This is achieved by suitable sizing of each individual ring prior to fitting.

It is particularly expedient if, in this connection, it is possible to envisage the toothed rim stretched out to its correspondingly larger circle, shrink fits for this circle being selected in accordance with the ISO tables of limits and fits. Similar considerations are made for the strengthening rings.

The invention permits a reduction in the danger of fatigue fractures without the need to increase the size, and consequently the material consumption.

10

### AMENDED CLAIMS

1.

A method for strengthening a gear wheel (1), wherein strengthening rings (3,4) are placed around the gear wheel and connected to the gear wheel teeth (2), **characterised** in that each tooth (2) is fixed like a theoretical beam between two extreme points in that two strengthening wheels (3, 4), each shaped on its inside in conformity with the gear wheel teeth (2), are shrink-fitted around the gear wheel.

10 2.

A method according to claim 1, **characterised in** that the strengthening rings (3, 4) are shrink-fitted around the gear wheel (1) in such manner that the strengthening rings (3, 4) will be firmly shrunk onto the gear wheel (1) with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material (steel).

3.

15

A method according to claim 2, **characterised in** that during the sizing process the toothed rim of the driving gear (1) is envisaged stretched out to a correspondingly larger circle, shrink fits being selected for this circle in accordance with the ISO tables of limits and fits, and that similar considerations are made for each strengthening ring (3, 4).

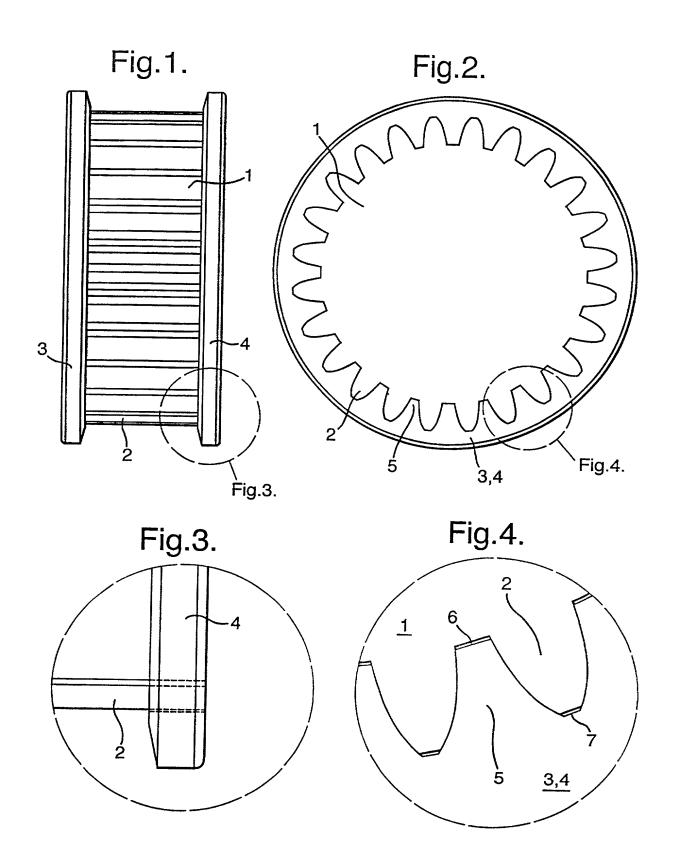
4.

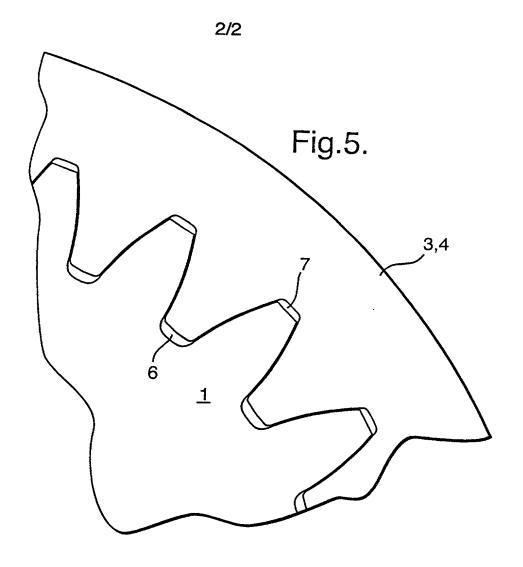
A gear wheel (1) having surrounding strengthening rings (3,4) connected to the gear wheel teeth (2), **characterised in** that each tooth (2) is fixed like a theoretical beam between two extreme points in that two strengthening rings (3, 4), shaped on their insides in conformity with the gear wheel teeth (2), are shrink-fitted around the gear wheel.

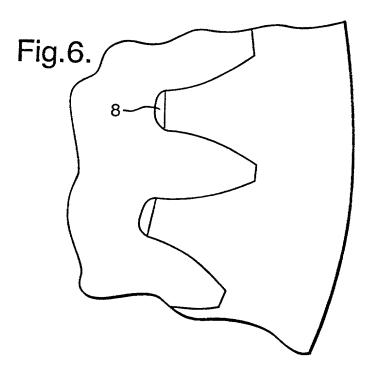
5.

30

A gear wheel according to claim 4, **characterised in** that the strengthening rings (3, 4) are shrink-fitted in such manner that the strengthening rings (3, 4) will be firmly shrunk onto the gear wheel (1) with a material-technical tensile/compressive strength within 80% of the 0.2% elastic elongation range of the material (steel).







SUBSTITUTE SHEET (RULE 26)

	OR PATENT APPLICATION AND conal and PCT International Appli		Attorney's Docket No.
I believe I am the original, first (if plural names are listed belowentitled:	ress and citizenship are as stated st and sole inventor (if only one w) of the subject matter which i	name is listed below) or an origonal sclaimed and for which a pater	ginal, first and joint inventor nt is sought on the invention
METHOD FOR STR	ENGTHENING A GEAR WHEE	L; AND A GEAR WHEEL	
the specification of w	hich (check only one item below	·):	
is attached here	to.		
Number	ited States application	-	
and was amend			
Number PCT on Aug and was amend on Aug and was amend on Aug amendment ramended by any amendment	exwed and understand the contents eferred to above.	(if applicable).  s of the above-identified specified in known to me to be material to states Code, §119 (a)-(e) of an olication(s) designating at least below any foreign application at least one country other than	o patentability as defined in  ny foreign application(s) for one country other than the (s) for patent or inventor's the United States of America
PRIOR FOREIGN/PCT APPL	ICATION(S) AND ANY PRIO	RITY CLAIMS UNDER 35 U	.S.C. §119:
COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §119
NORWAY ~	19993835 ~	10.08.99 ~	<u>x</u> Yes _ No
			_Yes _No
<del> </del>			_Yes _No
			_ Yes _ No
			_ Yes _ No
I hereby claim the benefit und below.	er Title 35, United States Code	§ 119(e) of any United States p	rovisional application(s) listed
(Application N	Jumber)	(Filing Date)	
(Application N	Jumber)	(Filing Date)	

I hereby claim the benefit under Title 35, United States Code, §120 of any United States applications(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose to the Office all information known to me to be material to the patentability as defined in Title 37, Code of Federal Regulations §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. §120:

	U.S. APPLICATIONS	s	ST	ATUS (check	one)
U.S. APPLICATION NU	JMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT A	APPLICATIONS DESIGNAT	ING THE U.S.			
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NUMBERS ASSIGNED (if any)			
				,	

I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with international applications directed to said invention:

William L. Mathis	17,337
Robert S. Swecker	19,885
Platon N. Mandros	22,124
Benton S. Duffett, Jr.	22,030
Norman H. Stepno	22,716
Ronald L. Grudziecki	24.970
Frederick G. Michaud, Jr.	26.003
Alan E. Kopecki	25.813
Regis E. Slutter	26.999
Samuel C. Miller, III	27,360
Robert G. Mukai	28,531
George A. Hovanec, Jr.	28,223
James A. LaBarre	28,632
E. Joseph Gess	28,510

Richard J. McGrath Matthew L. Schneider Michael G. Savage  29.195 32.814 32,596	Matthew L. Schneider	27,903 30,505 26,057 30,427 25,885 30,888 25,423 32,858 32,344 25,952 31,917 29,195 32,814 32,596
---	----------------------	--

_ <u>36</u> _32
<u> 36</u>
32
35
36
36
31
~34
33
33
.30

21839

Address all correspondence to:



Ronald L. Grudziecki

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

P.O. Box 1404

Alexandria, Virginia 22313-1404

Address all telephone calls to: Ronald L. Grudziecki

at (703) 836-6620.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY (CONT'D) Includes Reference to Provisional and PCT International Applications)			Attorney's Docke	
THE VALUE OF COLUMN TO PROPERTY AND THE PROPERTY OF THE PROPER				
FULL NAME OF SOLE OR FIRST INVENTOR	SIGNATURE	~·. /	DATE	
<u>Bjørn Eilertsen</u>	Bown !	= levtsen	04.01.0	
RESIDENCE	7 1	CITIZENSHIP		
Hundvåg, Norway		j		
POST OFFICE ADDRESS		Norwegian		
Hundvåg Ring 11, N-4085 Hundvåg, Norwa	ay			
FULL NAME OF SECOND JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE				
RESIDENCE		CITIZENSHIP		
		1		
POST OFFICE ADDRESS				
FULL NAME OF THIRD JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
	DIGITAL CIAL		DATE	
RESIDENCE		CITIZENSHIP		
RESIDENCE		CITIZENSHIP		
DOCT OFFICE ADDRESS				
POST OFFICE ADDRESS				
FULL NAME OF FOURTH JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE		CITIZENSHIP		
		CHIEFIGH		
DOGE OFFICE ADDRESS				
POST OFFICE ADDRESS				
FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE		CITIZENSHIP		
		CITIZZIOIII		
POST OFFICE ADDRESS				
POST OFFICE ADDRESS				
FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE		CITIZENSHIP		
		CITIZENOIII		
POST OFFICE ADDRESS				
POST OFFICE ADDRESS				
FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE		CITIZENSHIP		
		CHIZZANDIIII		
POST OFFICE ADDRESS	· · · · · · · · · · · · · · · · · · ·			
POST OFFICE ADDRESS				
FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	SIGNATURE		DATE	
RESIDENCE				
RESIDENCE		CITIZENSHIP		
POST OFFICE ADDRESS				